

Abstract

A lightweight electro-mechanical chest compression device. The device is provided with a motor, a brake, a drive spool, a control system, and a metal channel beam to brace the device and guide a compression belt. The belt is provided in a belt cartridge that attaches to the channel beam. In use, the belt is secured around the patient and to the drive spool. The motor tightens the belt by turning the drive spool. The electro-mechanical chest compression device weighs less than 30 pounds when fully assembled with its power source.